

Commissioner of Patents
Serial No.: 10/645,445
Response Date July 25, 2005
Reply to Office Action dated February 24, 2005
Page 2

CLAIMS

1. (Currently Amended) A method for cleaning an exposed heat exchanging coil, the method comprising the steps of:
 - a. providing a low-pressure cleaning system having
 - (i) a pressure source that creates movement of air, and
 - (ii) a discharge tube with a first end connected to the pressure source so that air will pass from the pressure source into the discharge tube and a second end that allows air to exit out of the discharge tube;
 - b. aiming the second end of the discharge tube at the heat exchanging unit;
 - c. operating the low-pressure cleaning system to cause air to exit the second end of the discharge tube at a pressure less than about 50 pounds per square inch but greater than zero pounds per square inch, at a velocity greater than about 180 miles per hour, and a volume of greater than 440 cubic feet per minute; and
 - d. removing foreign particles from the heat exchanging coil by causing the exiting air to pass through the heat exchanging coil.
2. (Original) The method for cleaning the heat exchanging coil of claim 1, wherein the discharge tube has a diameter of at least approximately two inches.
3. (Currently Amended) The method for cleaning the heat exchanging coil of claim 1, wherein the air is caused to exit out of the discharge tube at less than about 5 pounds per square inch but greater than zero pounds per square inch.
4. (Original) The method for cleaning the heat exchanging coil of claim 1, further comprising the step of injecting a substance into the discharge tube.

Commissioner of Patents

Serial No.: 10-645,445

Response Date July 25, 2005

Reply to Office Action dated February 24, 2005

Page 5

5. (Original) The method for cleaning the heat exchanging coil of claim 4, wherein the substance comprises a cleaning solution, so that a mist of cleaning solution passes through the heat exchanging coil along with the exiting air.
6. (Original) The method for cleaning the heat exchanging coil of claim 4, wherein the substance comprises a rinsing agent.
7. (Original) The method for cleaning the heat exchanging coil of claim 4, wherein the substance comprises a fogging agent.
8. (Canceled)
9. (Original) The method of cleaning the heat exchanging coil of claim 1, wherein the air exits the discharge tube at a velocity of greater than about 210 miles per hour.
10. (Canceled)
11. (Original) The method of cleaning the heat exchanging coil of claim 1, wherein the air exits the discharge tube at a volume of greater than about 640 cubic feet per minute.
12. (Currently Amended) A method for cleaning an exposed heat exchanging coil, the method comprising the steps of:
 - a. providing a low-pressure cleaning system having
 - (i) a pressure source that creates movement of air,
 - (ii) a discharge tube with a first end connected to the pressure source so that air will pass from the pressure source into the discharge tube and a second end that allows air to exit out of the discharge tube, and
 - (iii) an injector located inside the discharge tube;

Commissioner of Patents

Serial No.: 10/645,445

Response Date July 25, 2005

Reply to Office Action dated February 24, 2005

Page 4

- b. aiming the second end of the discharge tube at the heat exchanging unit;
- c. operating the low-pressure cleaning system to cause air to exit the discharge tube at a pressure less than about 50 pounds per square inch but greater than zero pounds per square inch at a velocity greater than about 180 miles per hour, and a volume of greater than 440 cubic feet per minute;
- d. injecting a substance from the injector into the air exiting the discharge tube; and
- e. removing foreign particles from the heat exchanging coil by causing the exiting air and substance to pass through the heat exchanging coil.

13. (Original) The method for cleaning the heat exchanging coil of claim 12, wherein the discharge tube has a diameter of at least approximately two inches.

14. (Currently Amended) The method for cleaning the heat exchanging coil of claim 12, wherein the air is caused to exit out of the discharge tube at less than about 5 pounds per square inch, but greater than 0 pounds per square inch.

15. (Original) The method for cleaning the heat exchanging coil of claim 12, wherein the substance comprises a cleaning solution, so that a mist of cleaning solution passes through the heat exchanging coil along with the exiting air.

16. (Original) The method for cleaning the heat exchanging coil of claim 12, wherein the substance comprises a rinsing agent.

17. (Canceled)

18. (Original) The method of cleaning the heat exchanging coil of claim 12, wherein the air exits the discharge tube at a velocity of greater than about 210 miles per hour.

Commissioner of Patents

Serial No.: 10.645.445

Response Date July 25, 2005

Reply to Office Action dated February 24, 2005

Page 5

19. (Canceled)

20. (Original) The method for cleaning a heat exchanging coil of claim 12, wherein the air exits the discharge tube at a volume of greater than about 640 cubic feet per minute.